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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/702,208 | 11/04/2003 | Kyung Sook Lee | 2060-3-61 | 7113 |
| 7590 | 08/30/2006 | | | EXAMINER BALAOING, ARIEL A |
| JONATHAN Y, KANG, ESQ. LEE, HONG, DEGERMAN, KANG & SCHMADEKA 14th Floor 801 S. Figueroa Street Los Angeles, CA 90017-5554 | | | ART UNIT 2617 | PAPER NUMBER |
| DATE MAILED: 08/30/2006 | | | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|------------------------------|------------------------|---------------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 10/702,208 | LEE, KYUNG SOOK |
| | Examiner | Art Unit |
| | Ariel Balaoing | 2617 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 26 June 2006.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 13-18,20-26,28-36,38-45,47-50,61 and 62 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 13-18,20-26,28-36,38-45,47-50,61 and 62 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on 04 November 2003 is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2617.

Response to Arguments

2. Applicant's arguments with respect to claims 13-18, 20-26, 28-36, 38-50, 61, 62 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 13-18, 20-26, 28-36, 38-45, 47-50, 61, 62 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for wherein the first information indicates a position of the second information in a target slot in said plurality of time slots, does not reasonably provide enablement for wherein the first information and the second information are transmitted in a general page message over a single paging channel, such that the mobile communication terminal searches for the first information and the second information in a single communication cycle. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims. Newly amended independent claims 13, 21, 31, 41, 61 and 62 include the limitations wherein the first information indicates position of the second

information in a target slot in said plurality of time slots; and wherein the first information and second information are transmitted in a general page message over a single paging channel, such that the mobile communication terminal searches for the first information and the second information in a single communication cycle. From the abstract, Figure 4, and paragraphs 10-15 indicate that the first information is **arrival information** and the second information is **position information** of specified slot are included in general page message over a single paging channel. It is clear that the first information does not provide a position of the second information as claimed. It can also be seen from Figure 6 that the short message is not contained within the general page message. In a second embodiment paragraph 17-19, the first information is position information which indicates presence of second information in a **second communication cycle**, which differs from the amended claims which claim both first and second information are transmitted in a single communication cycle on a general page message.

Interpretations of the claims in light of the specification and claim language have been made in view of the 112 1st issues noted above.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 13-18, 20-26, 28-36, 38-45, 47-50, 61, 62 are rejected under 35 U.S.C. 102(b) as being anticipated by CHANDER et al (US 5,909,651).

Regarding claim 13, CHANDER discloses a system for communicating information comprising: a mobile communication network [wireless communication network] for transmitting first information [header information; Figure 5] and second information [SMS message/ Parameter message] in a communication cycle [Paging Cycle] having a plurality of time slots (col. 2, line 1-36; col. 4, line 25-48; col. 5, line 3-46); a mobile communication terminal for searching a time slot in the communication cycle for the first information and retrieving the second information from the target slot based on the first information (col. 2, line 1-36; col. 5, line 35-62; if broadcast message is sent, mobile wakes to appropriate slot), wherein the first information and the second information are transmitted in a general page message over a single paging channel, such that the mobile communication terminal searches for the first information and the second information in a single communication cycle (col. 4, line 25-48; col. 5, line 47-62; message is sent in next following slot).

Regarding claims 14, 22, 32, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. CHANDER further discloses wherein the first information comprises position information (col. 2, line 1-36; col. 4, line 25-48; col. 5, line 3-46).

Regarding claims 15, 23, 33, 42, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. CHANDER further discloses wherein the second information comprises a message (abstract; col. 2, line 1-36; col. 4, line 25-48; col. 5, line 3-46; SMS message).

Regarding claims 16, 24, 34, 43, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. CHANDER further discloses wherein the first information indicates the presence of the second information in the communication cycle (col. 5, line 47-63; if field indicates a "1" mobile returns to sleep mode).

Regarding claim 17, 25, 35, 44, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. CHANDER further discloses wherein the message comprises text (abstract; col. 2, line 1-36; col. 4, line 25-48; col. 5, line 3-46; SMS message).

Regarding claims 18, 26, 36, 45, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. CHANDER further discloses wherein the second information comprises a short message (abstract; col. 2, line 1-36; col. 4, line 25-48; col. 5, line 3-46; SMS message).

Regarding claim 20, 28, 38, 47, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. CHANDER further discloses wherein a mobile short message is transmitted in a data burst message (col. 2, line 1-13).

Regarding claim 21, CHANDER discloses a method for transmitting information from a mobile communication network (abstract), the method comprising: transmitting first information in a communication cycle having a plurality of time slots (col. 2, line 1-36; col. 4, line 25-48; col. 5, line 3-46); and transmitting second information in the communication cycle (col. 2, line 1-36; col. 4, line 25-48; col. 5, line 3-46), wherein the first information indicates position of the second information in a target slot in said

plurality of time slots, such that the second information can be retrieved from the target slot in said communication cycle based on the first information (col. 2, line 1-36; col. 5, line 35-62; if broadcast message is sent, mobile wakes to appropriate slot), wherein the first information and the second information are transmitted in a general page message over a single paging channel, such that a mobile communication terminal searches for the first information and the second information in a single communication cycle (col. 4, line 25-48; col. 5, line 47-62; message is sent in next following slot).

Regarding claim 29, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. CHANDER further discloses wherein the first and second information are transmitted over a general paging channel (col. 2, line 14-27; paging channel).

Regarding claim 30, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. CHANDER further discloses wherein the first and second information are transmitted from a mobile communications network (col. 4, line 49-60).

Regarding claim 31, CHANDER discloses a method for communicating information in a mobile communication network (abstract), the method comprising: receiving first information in a communication cycle having a plurality of time slots (col. 2, line 1-36; col. 4, line 25-48; col. 5, line 3-46); and receiving a second information in the same communication cycle (col. 2, line 1-36; col. 4, line 25-48; col. 5, line 3-46); wherein the first information indicates position of the second information in a target slot in said plurality of time slots, such that the second information can be retrieved from the

target slot in said communication cycle based on the first information (col. 2, line 1-36; col. 5, line 35-62; if broadcast message is sent, mobile wakes to appropriate slot), wherein the first information and the second information are transmitted in a general page message over a single paging channel, such that a mobile communication terminal searches for the first information and the second information in a single communication cycle (col. 4, line 25-48; col. 5, line 47-62; message is sent in next following slot).

Regarding claim 39, 48, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. CHANDER further discloses wherein the first and second information are transmitted over a general paging channel from a mobile communication network (col. 2, line 14-27; col. 4, line 49-60).

Regarding claim 40, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. CHANDER further discloses wherein the first and second information are received by a mobile communication terminal (col. 2, line 14-27; col. 4, line 49-60).

Regarding claim 41, CHANDER discloses an apparatus for receiving information in a mobile communication network (abstract) comprising: a search mechanism for searching a slot in a communication cycle for first information indicating the position of second information in a target slot in the communication cycle (col. 2, line 1-36; col. 4, line 25-48; col. 5, line 3-46); a retrieving mechanism for retrieving the second information from the target slot based on the first information (col. 2, line 1-36; col. 4, line 25-48; col. 5, line 3-46), wherein the first information and the second information are

received as part of a general page message transmitted over a single paging channel, such that the apparatus searches for the first information and the second information in a single communication cycle (col. 4, line 25-48; col. 5, line 47-62; message is sent in next following slot).

Regarding claim 49, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. CHANDER further discloses wherein the apparatus is a mobile communication terminal (**40**).

Regarding claim 50, see the rejections of the parent claim concerning the subject matter this claim is dependent upon. CHANDER further discloses wherein the mobile communication terminal is in communication with a mobile base station (**50**).

Regarding claim 61, CHANDER discloses an apparatus for transmitting information in a mobile communication network comprising: means for transmitting first information in a communication cycle having a plurality of time slots (col. 2, line 1-36; col. 4, line 25-48; col. 5, line 3-46); and means for transmitting a second information in the communication cycle (col. 2, line 1-36; col. 4, line 25-48; col. 5, line 3-46), wherein the first information indicates position of the second information in a target slot in said plurality of time slots, such that the second information can be retrieved from the target slot in said communication cycle based on the first information (col. 2, line 1-36; col. 5, line 35-62; if broadcast message is sent, mobile wakes to appropriate slot), wherein the first information and the second information are transmitted in a general page message over a single paging channel, such that a mobile communication terminal searches for

the first information and the second information in a single communication cycle (col. 4, line 25-48; col. 5, line 47-62; message is sent in next following slot).

Regarding claim 62, CHANDER discloses an apparatus for transmitting information in a mobile communication network comprising: a transmitter wherein the transmitter transmits first information in a communication cycle having a plurality of time slots and for transmitting second information in the same communication cycle (col. 2, line 1-36; col. 4, line 25-48; col. 5, line 3-46), wherein the first information and the second information are transmitted in a general page message over a single paging channel, such that a mobile communication terminal searches for the first information and the second information in a single communication cycle (col. 4, line 25-48; col. 5, line 47-62; message is sent in next following slot).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

DIACHINA et al (US 5,768,276) – Digital control channels having logical channels supporting broadcast SMS.

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ariel Balaoing whose telephone number is (571) 272-7317. The examiner can normally be reached on Monday-Friday from 8:00 AM to 4:30 AM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Ariel Balaoing – Art Unit 2617

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